



STUDENT NAME \_\_\_\_\_ DATE \_\_\_\_\_

**Information Systems Security A.A.S. at CSM to  
B.S. IN CYBERSECURITY AT UMUC**

This worksheet is designed to help you plan and track your progress toward your degrees. For full course descriptions, please refer to the current undergraduate *Catalog*.

**Courses taken at College of Southern Maryland**

*Changes in recommended courses may affect other elements of the degree plan. Lower level equivalents of UMUC upper level courses fulfill content requirements but not upper-level minimum credit requirements*

UMUC  
Equivalent  
Course

*Recommended courses are those courses that best fulfill both UMUC and CSM graduation and major requirements. Other options may be available.*

UMUC GER Requirement	GENERAL EDUCATION REQUIREMENTS (GER) (18 credits)	
WRTG 101 Writing GER	ENG 1010 Composition and Rhetoric (3) <i>Communications GER</i>	WRTG 101
Mathematics GER	MTH 1100 College Mathematics <i>or more advanced math</i> (3)	MATH 106
English Writing GER	ENG 2050 Business and Technical Writing (3) <i>Communications/Writing GER</i>	
Biological and Physical Sciences GER	Biological / Physical Sciences gen. ed. (3) <i>Biological and physical sciences GER</i>	
Speech/writing GER	COM 1450 Groups, Teams, and Leadership (3) <i>Communications/Speech GER</i>	SPCH 420
First social and behavioral sciences GER	Social / Behavioral Sciences gen. ed. (3) <i>First social and behavioral sciences GER</i>	
<b>INTERDISCIPLINARY AND EMERGING ISSUES (3 credits)</b>		
	ITS 1015 The Information Age: Emerging Technologies (3) <i>First computing GER course at UMUC</i>	IFSM 201
<b>INFORMATION SYSTEMS RELATED COURSES (43 credits)</b>		
	ITS 1020 Operating Systems Concepts (3)	CMSC 412
	ITS 2510 Cisco Networking I (4)	
	ITS 2515 Cisco Networking 2 (4)	
	◆ ITS 2090 Computer Security (3) <i>Required UMUC major course</i>	◆ CMIT 320
	ITS 2520 Cisco Networking 3 (4)	
	ITS 2525 Cisco Networking 4 (4)	CMIT 350
	ITS 2940 Cyber Ethics (3)	
	ITS 2190 Microsoft Windows Server Environment (3)	CMIT 368
	ITS 2530 Hardening the Infrastructure (3)	
	◆ ITS 2545 Information Systems Security (3) <i>Supplemental UMUC major course</i>	◆ CSIA 454
	ITS 2535 Network Defense and Countermeasures (3)	
	◆ ITS 2500 Ethical Hacking (3) <i>Recommended Technical Elective; supplemental UMUC major course</i>	◆ CMIT 321
	ITS 2900 or ITS 2910 (3) <i>Applied learning</i>	
<b>Credits transferred: 64 credits</b>		

**SEQUENCE at UMUC**

*Courses are listed in the order in which students should take them.  
Changes in courses and order may affect other elements of the degree plan.*

**NOTES**
**ADDITIONAL REQUIRED GENERAL EDUCATION COURSES FOR DEGREE (13 credits)** *If requirement is completed in degree at community college, these credits may be used for electives*

Biological and Physical Science with Lab GER	NSCI 100 and NSCI 101 (4) <i>Or other biological/physical science GER course with related lab</i>	
First arts and humanities GER	ARTH 370 or HIST 365 (3) <i>Or other upper-level ARTH or HIST</i>	UL
Second social and behavioral sciences GER	ANTH 344 (3) <i>Or other second behavioral/social science GER course</i>	UL
Second arts and humanities GER	PHIL 315 or HUMN 351 (3) <i>Or other upper-level arts &amp; humanities from a second discipline</i>	UL

**EMERGING ISSUES (4 credits)**

LIBS 150 (1) <i>Required GER course</i>	
CMIS 102 (3) <i>Second Computing GER course and prerequisite for major courses</i>	

**ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (24 credits)**

◆ CSIA 301 (3) <i>Required for major</i>	UL
◆ IFSM 304 (3) <i>Required for major</i>	UL
◆ CSIA 302 or CMIT 265 (3) <i>Required for major</i>	UL
WRTG 393 or WRTG 393X (3) <i>Or other upper-level advanced writing GER course</i>	UL
◆ CISA 303 (3) <i>Core course for major</i>	UL
◆ CSIA 412 (3) <i>Core course for major</i>	UL
◆ CSIA 413 (3) <i>Core course for major</i>	UL
◆ CSIA 457 (3) <i>Or other supplemental course for major (CSIA 459, IFSM 432, IFSM 433, or CMIT 425)</i>	UL

**Capstone Course for major (3 credits)** *To be taken after all other courses for the major*

◆ CSIA 485 (3) <i>Required course for major</i>	UL
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**MINOR OR ELECTIVES (15 credits, at least 9 credits upper level for minor)**

See requirements of individual minor. Note minimum requirements for upper-level coursework.	UL
	UL
	UL

**ADDITIONAL ELECTIVES**

Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework. Recommended: Calculus (MATH 140/141, 220 or 130/131) for those continuing to graduate school.

**TOTAL: 120 CREDITS****CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS** See catalog for overview of all requirements.

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|---|--|
| <input type="checkbox"/> 30 credits at UMUC, including at least half of the major and minor and 15 upper level credits.<br><input type="checkbox"/> 45 upper-level credits, including half the credit for the major and the minor.<br><input type="checkbox"/> All required courses <u>and</u> minimum number of credits for major and minor.<br><input type="checkbox"/> Prerequisites for major and minor courses, if needed. | <input type="checkbox"/> All General Education Requirements.<br><input type="checkbox"/> Grade of C or better in all courses for the major and minor.<br><input type="checkbox"/> Overall GPA of at least 2.0.<br><input type="checkbox"/> At least half the credit for the major earned through graded coursework.<br><input type="checkbox"/> Total 120 credits. |
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